

# आरत का राजपत्र

## The Gazette of India

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सं. 12] नई बिल्ली, शमिवार, मार्च 20, 1982 (फाल्गुन 29, 1903)  
No. 12] NEW DELHI, SATURDAY, MARCH 20, 1982 (PHALGUNA 29, 1903)

इस घाग में अलग पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट फोर्मलिय द्वारा आदी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 20th March 1982

#### CORRIGENDUM

(1)

In the Gazette of India, Part III, Section 2 dated the 13th February 1982 under the heading "PATENTS SEALED" delete 145916.

(2)

In the Gazette of India, Part III, Section 2 dated the 13th February 1982 under the heading "PATENTS SEALED" for 146107 read 147107.

(3)

In the Gazette of India, Part III, Section 2 dated the 30th January 1982 under the heading "PATENTS SEALED" delete 148613.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

11th February 1982

163/Cal/82. Euteco Impianti S.p.A. Oxychlorination catalyst precursor and process for its preparation.

164/Cal/82. Application Des Gaz. Gas lighting apparatus.

165/Cal/82. Isover Saint-Gobain. Method and apparatus for making a fibrous mat of fibres.

166/Cal/82. Aikoh Co. Ltd. A core for blow-forming the lining of vessel for molten metal, a lining method using said core, and a lining composition used in said lining method.

12th February 1982

167/Cal/82. Johnson & Johnson, Inc. Stoma seal adhesive.

168/Cal/82. Johnson & Johnson Products, Inc. Pressure-sensitive compositions having high shear and low peel resistance.

169/Cal/82. Vev Kombinat Fortschritt Landmaschinen Neustadt in Sachsen. Process for producing water-free milk fat.

170/Cal/82. Atlantic Richfield Company. Improved photo-responsive amorphous alloys.

171/Cal/82. Michelin & Cie (Compagnie Generale des Etablissements Michelin). Tire for heavy transport vehicles, the crown reinforcement of which has thermocontractable circumferential cables and process for manufacturing same.

172/Cal/82. Michelin & Cie. (Compagnie Generale des Etablissements Michelin). Tire, particularly for airplanes, having a crown reinforcement with extensible edges and method of manufacturing same.

173/Cal/82. Michelin & Cie (Compagnie Generale des Etablissements Michelin). Tire, particularly for airplanes, with crown reinforcement of textile cable, and process for the manufacture thereof.

15th February 1982

174/Cal/82. Dr. Mrs. Malaya Gupta and T. Chatterjee. Method of producing a new antibiotic named MT81.

175/Cal/82. Westinghouse Electric Corporation. Catalytic combustor having secondary fuel injection for low NO<sub>x</sub> stationary combustion turbines.

176/Cal/82. Westinghouse Electric Corporation. Catalytic combustor having secondary fuel injection for low NO<sub>x</sub> stationary combustion turbines.

177/Cal/82. Westinghouse Electric Corporation. Improved catalytic combustion system for a stationary combustion turbine having a transition duct mounted catalytic element.

178/Cal/82. S. K. De. Improved coiled tube type with forced circulation.

179/Cal/82. Snamprogetti S.p.A. Process for the isothermal absorption of ethylene oxide using film absorbers.

180/Cal/82. Sri A. Ghosh Dastidar. Improved concrete piles.

16th February 1982

181/Cal/82. Dana Corporation. Bearing seal.

17th February 1982

182/Cal/82. Sri S. K. Sen. Packaging with water, hyacinth.

183/Cal/82. Grathnail Development Company Limited. Method of and apparatus for mining analysis.

184/Cal/82. Distillation Technology Limited. Mass transfer apparatus.

185/Cal/82. Application Des Gaz. Portable gas cooker whose elements are all dismountable. (April 21, 1981).

186/Cal/82. Isover Saint-Gobain. Improvements to the processes and apparatus for forming mineral fibers by means of centrifugation wheels.

187/Cal/82. Industrial Machine Works. A system for conserving hot metal temperature.

**APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, AT TODI ESTATES, III FLOORS, SUNMILL COMPOUND, LOWER PARFI (WEST) BOMBAY-400 013**

2nd January 1982

1/Bom/1982. Richardson & Cruddas (1972) Limited. A fuelless pump.

4th January 1982

2/Bom/1982. Karimbhai Valibhai Mankad. Locking lever system geared to hollow or solid key and stubs for locks and safes.

5th January 1982

3/Bom/1982. Joseph Edmund Paonente. Power factor control systems for polyphase induction motors.

6th January 1982

4/Bom/1982. Satyakant Chhaganlal Bulsara. Game of alphabet or number marked different colour blocks.

8th January 1982

5/Bom/1982. Raghavendra Vamancharya Nagarhalli. Plant for accelerated generation of biogas and manure.

6/Bom/1982. Harshad Khushaldas Mehta. A TV projector and method of projecting picture image from picture tube onto a screen.

11th January 1982

7/Bom/1982. Vishwanath Narayan Sathe. Instant fusible alloy installer in the safety valves of pressure cookers.

8/Bom/1982. Daulat. Fibreglass reinforced plastic speed boat.

9/Bom/1982. The Dow Chemical Company. High efficiency catalyst containing titanium and zirconium and process for polymerizing olefins.

10/Bom/1982. General Industrial Controls Private Limited. A packaging system.

11/Bom/1982. Vijay Bhagwandas Vaswani. Hydrostatic release unit.

14th January 1982

12/Bom/1982. Nandan Raundas Chittal. Fan cover.

18th January 1982

13/Bom/1982. Rohit Harishchandra Parikh. A yarn package holder assembly.

14/Bom/1982. Manapurath Chacko Abraham. An anti-theft device.

21st January 1982

15/Bom/1982. Shridhar Ramchandra Sathe and another. Aqua rota.

16/Bom/1982. Sagar Vishnu Jog. A portable milling machine.

17/Bom/1982. Badrinath Ishwarlal Pujari. Improved air Cooler.

22nd January 1982

18/Bom/1982. Kailash Chand Mohanlal Mehra and others. Coupling for transmission of fluids.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS 63E.

149698.

Int. Cl.-H02k 9/04.

#### DYNAMOELECTRIC MACHINES.

*Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.*

*Inventor : LON WALTER MONTGOMERY.*

*Application No. 130/Cal/78 filed February 4, 1978.*

*Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.*

## 5 Claims.

A dynamoelectric machine comprising a stator, a rotor, a shaft rotatably mounted within the stator and forming a core for the rotor, a spider extending radially outwardly from the shaft, a plurality of rotor laminations encircling the spider, the rotor laminations being arranged in groups with a space between groups and the rotor laminations having a plurality of notches adjacent their outer periphery, the notches being aligned to form axial grooves, rotor bars disposed in the axial grooves in the rotor laminations, short circuiting rings disposed on the ends of the rotor bars for electrically connecting the ends thereof, fan assemblies, one on each end of the shaft disposed outboard and adjacent the short circuiting rings, the fan assemblies being made of non-magnetic material, a plurality of stator laminations disposed to encircle the rotor, the stator laminations being disposed in groups with a space between groups, the stator laminations having an inner margin with a plurality of aligned notches disposed adjacent thereto to form axial grooves in the stator laminations, and conductive windings disposed in the axial grooves in the stator laminations, the windings having turns which are formed, as the windings leave one axial groove in the stator and return to another such groove, the end turns extending axially and outwardly beyond the short circuiting rings and the fan assemblies, whereby when operating the isopotential lines normal to the magnetic field in the end region of the machines are more evenly distributed resulting in lower losses and reduced temperature differentials in the short circuiting rings.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

## CLASS 53E.

149699.

Int. Cl.-A61k 27/00, B01j 1/00.

## METHOD OF PRODUCTION OF ACTIVE SUBSTANCE OF AN ANTILITHIATIC MEDICAMENT.

*Applicant* : POLSKA AKADEMIA NAUK, INSTYTUT CHEMII ORGANICZNEJ, OF WARSZAWA, UL. KASPRZAKA 44/52, POLAND.

*Inventors* : WLODZIMIERZ GUSTOWSKI, MARIAN KOCOR, CHAND K. ATAI, ALICIA ORKISZEWSKA PIASTOW, RYSZARD OLSZEWSKI, AND TADEUSZ WRONCINSKI

Application No. 153/Cal/78 filed February 9, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims. No drawings.

Method of production of active substance as herein before described of an antilithiatic medicament as hereinbefore described, characterized by that ground seeds of beans of the genus *Dolichos* are extracted with polar solvents such as herein described, then the extract is submitted to an acid hydrolysis, whereafter the acid hydrolyzate is extracted with solvents herein before described immiscible with water, and then it is neutralized and concentrated to produce the said active substance of an antilithiatic medicament.

Comp. Specn. 19 Pages.

Drgs. Nil

## CLASS 116 H &amp; 166B.

149700.

Int. Cl.-B65g 67/58, B63b 27/10

## MFANS FOR LOADING AND/OR UNLOADING OF DRY GOODS CARRYING VESSELS IN A CARGO HANDLING SYSTEM.

*Applicant* : VAI MET OY, OF PUNANOTKONKATU 2, 00130 HELSINKI 13, FINLAND.

*Inventor* : VEIKKO KOSKIVIRTA.

Application No. 481/Cal/78 filed May 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

Means for the loading and/or unloading of dry goods carrying vessels in a cargo handling system characterized in that it

comprises a pontoon disposed in parallel relationship with another pontoon or the quayside at a distance such as to accommodate the vessel or vessels, said pontoons or pontoon and the quayside having means for movement of a mobile crane along the said pontoon and in the quayside or the pontoons said crane having wheels or the like for running above the vessel or vessels to be loaded and/or unloaded along the said means provided in the pontoon and the quayside or pontoons, said crane also being adapted to extend over the vessel or vessels for lifting the cargo from the vessel or vessels and/or the lowering the cargo in to the vessel or vessels at least in part from or to the place where the cargo is stowed.

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

## CLASS 32F.

149701.

Int. Cl.-C07f 9/08.

## A PROCESS FOR THE PREPARATION OF DIALKYL PHOSPHITES CONTAINING ALKYL GROUPS HAVING 1 TO 4 CARBON ATOMS.

*Applicant* : CHINION GYOGYSZER ES VEGYESZETI TERMEKEK GYARA RT., OF 1-5, TO UTCA, BUDAPEST IV, HUNGARY.

*Inventor* : DR. GABOR SZEBO, DR. KAROLY JAKUS AND GYULA SZUK.

Application No. 538/Cal/78 filed May 18, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A process for the preparation of dialkyl phosphites containing alkyl groups having 1 to 4 carbon atoms starting from phosphorus trichloride and a corresponding alkanol having 1 to 4 carbon atoms in an inert organic solvent, characterized in that a reaction mixture containing (i) phosphorus trichloride and (ii) an alkanol having 1 to 4 carbon atoms in the presence of a solvent selected from benzene, a benzene homologue, halogenated benzene, a halogenated aliphatic hydrocarbon containing 1 to 4 carbon atoms is reacted in a vapour-liquid equilibrium reactor, at a site corresponding to the boiling point of reaction mixture in a reaction zone having a temperature of 45 to 110°C, the reaction mixture is kept in this zone until the conversion of the starting compounds is completed, the excess amount of the hydrochloric acid formed in the reaction and the alkyl chloride are separated from the dialkyl phosphite in the rectifying zone, at a temperature of 10 to 70°C and subsequently exhausted from the reactor through the conventional dephlegmator at a temperature of 10 to 25°C, the dialkyl phosphite obtained is led out of the reactor together with the solvent in the boiling out zone, at 70 to 135°C, free from the other reactants and, if desired, is released from the solvent.

Comp. Specn. 17 Pages.

Drg. 1 Sheet.

## CLASS 129G.

149702.

Int. Cl.-B23K 7/9

## CUTTING MACHINE, IN PARTICULAR FLAME CUTTING MACHINE.

*Applicant* : MESSEN GRIESHEIM GMBH, OF HANAUER LANDSTR. 330, D-6000 FRANKFURT/MAIN, WEST GERMANY.

*Inventor* : JURGEN BOJE AND HORST BRATENGEIER.

Application No. 845/Cal/78 filed August 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A cutting machine, in particular a flame cutting machine, with a tracing unit which traces photo-electrically the line of a drawing or an edge and has at least one photo-transistor, the output signals of which can be passed on to a tracing motor, whereby the tracing motor is coupled with a resolver

for the control of two co-ordinate motors, and whereby the photo-transistor (14), the tracing motor (12) and the resolver (13) are coupled mechanically directly with each other.

Comp. Specn. 10 Pages.

Drg. 2 Sheets.

CLASS 32F<sub>1</sub> & 55D<sub>2</sub>.

149703.

Int. Cl.-A01n 9/00, C07c 103/30.

METHOD FOR PREPARING N-1, 1, 2, 2-TETRACHLORO-2-FLUOROETHYLTHIO BENZANILIDE.

*Applicant*: STAUFFER CHEMICAL COMPANY OF WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.

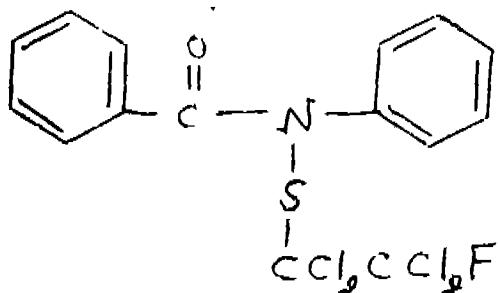
*Inventors*: HSIAO-LING IAM, AND FERENC MARCUS PALLOS.

Application No. 1012/Cal/78 filed September 15, 1978.

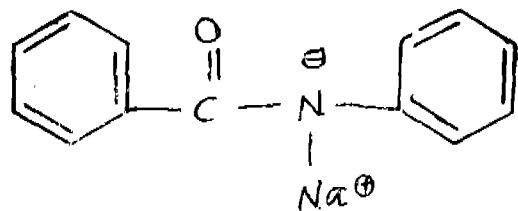
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A method of preparing N-1, 1, 2, 2-tetrachloro-2-fluoroethylthio benzanilide of formula I.



comprising reacting sodium hydride with a mole excess of benzanilide to form a compound of the formula II.



and reacting said compound of Formula II with CISCCl<sub>2</sub>F in an inert solvent at reflux temperatures and recovering the product.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 67C.

Int. Cl.-G05b 1/00.

149704.

#### SERVO-SYSTEM.

*Applicant*: YOKOGAWA ELECTRIC WORKS, LTD., AT 9-32, NAKACHO 2-CHOME, MUSASHINO-SHI, TOKYO, JAPAN.

*Inventors*: NUBUO KAIEDA AND YOSHIHIRO OKANO.

Application No. 1335/Cal/78 filed December 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A servo-system responsive to a dc input signal comprising a high-gain direct-coupled differential dc amplifier having said dc input signal as one input thereto, comparison signal generating means for generating a comparison signal, and adder for adding the output of said dc amplifier to said comparison signal, a filter circuit for filtering the output of said adder and for applying the filtered output as a second input to said dc amplifier, a servo-motor, a servo-amplifier connected between said dc amplifier and said servo-motor for driving said servo-motor in accordance with the differential output of said dc amplifier, and coupling means for coupling said comparison signal generating means to said servo-motor to vary said comparison signal in accordance with displacement of said servo-motor to zero-balance the output of said direct-coupled dc amplifier.

Comp. Specn. 26 Pages.

Drg. 6 Sheets.

CLASS 80J.

149705.

Int. Cl.-B01d 39/10.

#### TUBEWELL STRAINER OF FILTER.

*Applicant & Inventor*: BIREN DAS GUPTA, 19, SHYAMA PALLI, JADAVPUR, CALCUTTA-700 032, WLST BENGAL, INDIA.

Application No. 1341/Cal/78 filed December 16, 1978.

Addition to No. 142566.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Tubewell strainer or filter comprising a vertically disposed cylindrical or tubular frame consisting of a plurality of longitudinal bars of iron whose top ends are welded or riveted to the inner wall of a threaded socket and the bottom ends to the inner wall of a similarly threaded socket, a series of spaced iron rings placed spacedly and welded to the inner surface of the tubular frame characterised by that the said cylindrical or tubular frame is encircled by a series of permeable or percolation blocks of thermoplastic material placed one above the other, and a circular flange welded on each of the top and bottom sockets, each such cylinder block is provided with a series of slits for percolation of water there through, the width of each slit varies from 0.07 mm to 0.50 mm and the distance between any two consecutive slits is not more than 3 mm, and further characterised by that each said cylinder block is provided on its inner surface with at least two integral pipes through which the longitudinal bars of the frame pass.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 10B & 71A.

149706.

Int. Cl.-F42d 7/00.

#### APPARATUS FOR CONTINUOUS PROCESSING OF WORKPIECE.

*Applicant*: GEORG FISCHER AKTIENGESELLSCHAFT, CH-8201 SCHAFFHAUSE, SWITZERLAND.

*Inventor*: DR. DIETER BASS.

Application No. 421 /Cal/79 filed April 26, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

An apparatus for the continuous processing of workpieces comprising a rotatable drum and centrifugal blasting medium impeller means for shot blasting said workpiece contained in the drum, and wherein the supply of the quantity of workpieces to the drum varies with time, said apparatus including transducer means for measuring the quantity of workpieces to

be blasted per unit time and for producing a signal representative of that quantity; means coupled to the drum for controlling the rate of passage of the workpieces through the drum; and a regulating circuit coupled to said means for controlling and responsive to the signal from said transducer means for varying the workpiece rate of passage as a function of workpiece quantity whereby a substantially uniform blasting effect on the workpieces is achieved independently of the quantity supplied.

Comp. Specn. 19 Pages.

Drg. 3 Sheets.

CLASS 66B.

149707.

Int. Cl.-F21l 7/00.

#### ELECTRIC FLASHLIGHT.

*Applicant*: UNION CARBIDE INDIA LIMITED, OF 1, MIDDLETON STREET, CALCUTTA-700 071, WEST BENGAL, INDIA.

*Inventor*: PARTHA DEB PAL.

Application No. 784/Cal/79 filed July 30, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A dispersable electric flashlight comprising a casing of a non-conducting resilient material like thermoplastics, said casing being open at top and closed at bottom, a coil spring of conducting material disposed at bottom of said casing, cell(s) adapted to rest on said spring, a reflector, held below a constriction or in a groove running around the neck portion of the casing, a conducting strip extending from the coil spring along the casing wall and terminating opposite to but spacedly from the conducting reflector wall, an electric bulb being fitted, when needed, in the socket in the reflector so that it touches the conducting base (or top) of the or upper cell, arrangement being such that when the casing wall against the upper end of the conducting strip is pressed, it, the wall, being resilient, presses the strip and causes it, the strip, to contact the conducting reflector wall and thus complete the electric circuit to light up the bulb.

Comp. Specn. 7 Pages.

Drg. 2 Sheets.

CLASS 206E.

149708.

Int. Cl.-H011 1/00.

#### SEMI-CONDUCTOR ASSEMBLIES.

*Applicant*: THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND.

*Inventor*: DENNIS GEORGE GOODMAN.

Application No. 2846/Cal/74 filed December 24, 1974.

Convention date January 18, 1974/(02391/74), U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A semi-conductor assembly including a conductive stud, a semi-conductor device mounted on said stud so that a first contact area of the device is thermally and electrically connected thereto, an electrical lead including an expanded head portion which is thermally and electrically connected to a second contact area of the device, a thermally conductive body shaped to define a recess in which said stud is engaged so as to close an open end of the recess with the device being accommodated in the space defined between the stud and the walls of the recess, the electrical lead extending through an aperture in one of said walls, sealing means for preventing ingress of foreign material through said aperture into said space, and a resilient member trapped and deformed between the head portion of the lead and said body so that the head portion is urged into pressure contact with the device.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 62D.

149709.

Int. Cl.-D06c 1/06.

#### APPARATUS AND METHOD FOR CONTROLLING PATH OF TRAVEL OF A WEB.

*Applicant*: MORRISON MACHINE CO., 1171-1225 MADISON AVENUE, PATERSON, NEW JERSEY 07503, U.S.A. AND CLUFTT PEABODY & CO., INC., 433 RIVER STREET, TROY, NEW YORK, STATE OF NEW YORK, U.S.A.

*Inventors*: PETER PAUL STANISLAW, CLIFFORD JAMES BECKWERMERT, WALTER STARK TROOPE AND JACKSON LAWRENCE.

Application No. 120/Cal/75 filed January 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A low-friction, low pressure seal for use in combination with a processing chamber for the continuous liquid ammonia processing of fabrics, wherein the chamber is maintained at a slight negative pressure in relation to the surrounding ambient and wherein the fabric is conveyed through the chamber with minimum tension applied at the seal, wherein the seal comprises and is characterized by means forming a smooth stationary rigid guide member mounted in the region of the chamber opening, for engaging, guiding and supporting one surface of the fabric web as it passes through the opening; said guide member extending across the full width of the opening; a stationary seal support mounted in spaced, parallel relation to said guide member and defining therewith a web passageway associated with said chamber opening; an elongated, resilient, hollow, deformable sealing member carried by said stationary seal support and extending toward said guide member; said deformable sealing member extending across the full width of said opening; a thin flexible, web-like section of low friction material secured in normally stationary manner in a region spaced from said deformable sealing member and extending between said sealing member and said rigid guide member; said web-like section being urged lightly toward said guide member by said sealing member; said resilient sealing member being maintained free of internal inflation pressures, whereby sealing pressures applied by said sealing member are derived exclusively by limited elastic deformation of said sealing element, whereby said fabric can be advanced with a minimum of tension resulting from said seal, and said low pressure seal being adapted for the low resistance passage of a fabric web between and in sealed relation with said guide member and said section of low friction material.

Comp. Specn. 19 Pages.

Drg. 5 Sheets.

CLASS 87C.

149710.

Int. Cl.-A63b 51/06.

#### IMPROVEMENTS IN OR RELATING TO RACKETS.

*Applicant & Inventor*: ROBIN MICHAEL BLACK-BURNE, OF ARDSHEAL COTTAGE, PAGET 6-20, BER-MUDA.

Application No. 424/Cal/75 filed March 5, 1975.

Convention date March 6, 1974/(10120/74) May 31, 1974/(24294/74), U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

37 Claims.

A games racket comprising a handle intended to be held in the hand, and carrying a head having a marginal frame defining a central opening, across which extends tensioned stringing carried by the head, the stringing being composed of two sets of stringing, with each set being composed of a first group of generally parallel string portions, and a second group of generally parallel string portions extending generally perpendicular to, and interwoven with, the string portions of the first group, and with each set of stringing being disposed in a respective one of two generally parallel planes separated by a distance approximating the thickness of the frame, the thickness of the frame in a direction generally normal to the

planes of the stringing being substantially greater than the cross-sectional thickness of the individual string portions, the stringing passing through apertures distributed around substantially the entire periphery of the frame and opening into opposite side surface of the frame which are spaced apart in said direction, the frame including a structural marginal frame part defining the central opening, and at least one separate member extending around the central opening, and carried by the structural marginal frame part, the stringing-receiving apertures being formed, at least in part, in the at least one separate member.

Comp. Specn. 34 Pages.

Drg. 2 Sheets.

CLASS 85Q & 141C.

149711.

Int. Cl.-F27b 7/10, 7/36, C21b 1/06, B05b 7/00, 7/32.

**IMPROVED FLUID-DELIVERY NOZZLE FOR A ROTARY ORE-REDUCING KILN.**

*Applicant:* ALLIS-CHALMERS CORPORATION, OF 1126 SOUTH 70TH STREET, WEST ALLIS 14, WISCONSIN, UNITED STATES OF AMERICA.

*Inventor:* EUGENE FRANK ROSSI.

Application No. 1643/Cal/75 filed August 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A fluid-delivery nozzle for a rotary ore-reducing kiln, said nozzle, having an elongated hollow body adapted, in use, to be mounted on the outside of the kiln to rotate therewith and to project generally radially inwardly through the kiln shell in fluid communication with the interior of the kiln, the hollow body of the nozzle being closed at its radially outer end thereof (relative to the kiln axis) to form a nozzle chamber connectable to source of fluid, characterised by comprising a hollow sleeve extending through the nozzle body for substantially the entire length of the nozzle body, a nozzle tip forming a closure contiguous the normally radially inner end of said nozzle body (relative to the kiln axis), a fluid passage for a liquid fluid through said nozzle tip, the hollow sleeve extending through the nozzle body at least to said nozzle tip and being in fluid communication with the fluid passage through the nozzle tip, a liquid fuel tube slidably received within the hollow interior of the hollow sleeve, the liquid fuel tube being adapted to be connected contiguous a radially outer end thereof to a source of liquid fuel, an inlet port in the nozzle body for admitting a gaseous fluid into the nozzle chamber of said nozzle body which surrounds said hollow sleeve, an outlet port in the nozzle body arranged contiguous the normally radially inner end of said nozzle body and adapted to communicate with the interior of the kiln, said outlet port communicating with said nozzle chamber of said nozzle body for the passage of gaseous fluid, when admitted to said inlet port of the nozzle body, through said nozzle chamber to said outlet port separately from the liquid fuel, and thence into the kiln.

Comp. Specn. 33 Pages.

Drg. 2 Sheets

CLASS 97F.

149712.

Int. Cl.-F27b 7/00.

**SMELTING PROCESS AND APPARATUS.**

*Applicant:* ELKEM-SPIGERVERKET A/S, OF ELKEM-HUSET, MIDDELTHUNSGATEN 27, OSLO, NORWAY.

*Inventor:* HARALD KROGSRUD.

Application No. 1012/Cal/75 filed May 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of smelting a charge in an electric smelting furnace which is equipped with a rotatable lower pot portion and a fixed upper pot portion, in which stoking of the charge is performed below the normal charge surface level in the furnace by means of one or more stoking units which are inserted through the wall of the fixed upper portion of the furnace pot.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 167C.

149713

Int. Cl.-B07b 13/00.

**TRACKING SYSTEMS FOR SORTING APPARATUS.**

*Applicant:* SPHERE INVESTMENTS LIMITED, OF P.O. BOX NO. 7788, TRUST CORPORATION OF BAHAMAS BUILDING, WEST BAY STREET, NASSAU, BAHAMA ISLANDS.

*Inventors:* RODERICK JOHN GORDON AND HILTON PAUL GORDON.

Application No. 1180/Cal/75 filed June 16, 1975.

Convention date July, 4 1974/(204, 023/74), CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A tracking system for a sorting apparatus for sorting pieces of material moving through a sorting zone in a wide path random stream, comprising scanning means to make repeated scans across the sorting zone to detect light reflected from discrete areas of each piece of material as the scan traverses the piece of material and to provide a scan signal representative of the reflected light, deflection means downstream of said scanning means and comprising a plurality of deflection devices extending across said sorting zone, each device having a first condition which permits pieces of material passing it to follow a predetermined undeflected path and a second condition which deflects passing pieces of material from said predetermined path, electronic means generating timing related to the rate at which the scan traverses the sorting zone, said timing signals representing a plurality of overlapping analysing channels each extending parallel to the direction of movement of the pieces of material through the sorting zone, circuit means for each analysing channel each receiving said scan signal and a respective timing signal for accumulating information from said scan signal relating to pieces of material in the respective analysing channel and providing a decision signal based on the accumulated information on a piece of material, and control means for each analysing channel responsive to said decision signal to actuate a number of deflection devices extending at least the width of the analysing channel.

Comp. Specn. 27 Pages

Drg. 3 Sheets.

CLASS 155D.

149714.

Int. Cl.-D04h 1/72.

**A TUFTED NON-WOVEN WATER-LAID FIBROUS WEB AND A PROCESS FOR PRODUCING THE SAME.**

*Applicant:* THE DEXTER CORPORATION, OF WINDSOR LOCKS, CONNECTICUT, UNITED STATES OF AMERICA.

*Inventors:* JAMES MORAN AND BERNARD WILLIAM CONWAY.

Application No. 1225/Cal/75 filed June 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims.

A process for producing a tufted non-woven water-laid fibrous web material comprising the steps of providing a plate-like, fiber-collecting element having a smooth fiber collecting surface and a multitude of apertures extending from said surface continuously through said element, each of said apertures having a lip portion at said surface and a generally tubular configuration through said element, providing a dispersion of fibers suited for being dispersed in an aqueous medium at a fiber concentration of at least about .01 percent by weight and depositing the fibers from said dispersion on the fiber collecting element to promote laminar flow of the aqueous fiber dispersing medium through the tubular apertures in said plate-like element and thereby form a tufted non-woven fibrous web material on said element, said web having integral tufts formed from bundles of closely associated individual fibers extending over said lip portion and into the apertures in said element.

Comp. Specn. 36 Pages.

Drg. 2 Sheets.

CLASS 33A.	149715.	Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—		
Int. Cl.-B22d11/14.		(1) 141048 141055 141074 141085		
METHOD AND APPARATUS FOR LOCATING IMPROPERLY POSITIONED OR BENT ROLLS.		(2) 141562 141563		
Applicant : USS ENGINEERS AND CONSULTANTS, INC., AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.		(3) 141640		
Inventors : MICHAEL GEORGE GONOS, KENNETH DUAINE IVES AND RONALD STEVEN VRANKA.		(4) 142015		
Application No. 1622/Cal/75 filed August 20, 1975.		(5) 142483		
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.		(6) 148168 148169 148170 148171 148172 148173 148174 148175 148176 148177 148178 148179 148180 148181		
23 Claims.		(7) 148274 148275 148276 148278 148279 148280 148281 148282 148283 148286 148287 148288 148289 148290		
An apparatus for locating improperly positioned rolls among a set of rolls which are arranged in opposed pairs and have work-engaging faces defining a confined path of travel for a workpiece, said apparatus comprising a housing movable along said path, means carried by said housing at opposite faces thereof for abutting said work-engaging faces and guiding said housing, and at least one gap sensor carried by said housing and including heads supported for relative movement normal to the direction of movement of said housing along said path and adapted to contact the work-engaging faces of the individual roll-pairs successively, and transducer means operatively connected with said heads for transmitting signals representative of the measurements of the gap between the work-engaging faces of each roll-pair contacted by said heads.		(8) 148382 148383 148384 148385 148386 148388 148389 148390 148391 148392 148393 148395 148396 148397		
Comp. Specn. 20 Pages.	Drg. 5 Sheets.	(9) 148418 148419 148420 148421 148425 148430 148431 148433 148435 148436		
OPPOSITION PROCEEDINGS		(10) 148486 148488 148489 148493 148496 148497 148498 148499 148500 148501 148503 148506 148507 148508 148510		
(1)		(11) 143322 143325 143326 143327 143328 143329 143334 143336 143338 143340 143342 143343 143345 143346 143348 143351 143352 143353 143354 143355 143357 143358 143359 143360		
An opposition has been entered by Union Carbide India Limited to the grant of a patent on application No. 149055 made by Ramachandra Sivaramakrishnan.		PATENTS SEALED		
(2)		143705 144859 145916 146100 146927 147091 147465 148373 148550 148711 148729 148730 148740 148746 148828 148839 148852 148856 148857 148858 148867 148868 148871 148877 148984 149021 149078		
PRINTED SPECIFICATION PUBLISHED		ELECTRICAL LIST I		
A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-		COMMERCIAL WORKING OF PATENTED INVENTIONS		
The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of Patents Act 1970, in respect of Calender year 1980, generally on account of want of requests for licences to work the Patented inventions.				
Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of Licence for the purpose.				
Sl. No.	Patent No.	Date of Patent	Name and address of Patentee	Title of the Invention
1	2	3	4	5
1.	109922	27-03-1967	SCHENECTADY CHEMICALS INC. Schenectady, New York, U.S.A.	(1) Dual coated electrical conductor.
2.	124228	21-01-1969	THORN LIGHTING LTD, Thorn House, Upper Saint Martin's Lane, London W C 2 England.	Electric incandescent lamps.
3.	126815	26-05-1970	IMPERIAL CHEMICAL INDUSTRIES LTD, Imperial Chemical House, Millbank, London S W 1, England.	Anode assembly for electrolytic cells.

1	2	3	4	5
4.	126943	04-06-1970	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York, 10017, U.S.A.	Leclanche dry cell with thick wet paste separator.
5.	128498	19-09-1970	ESSEX INTERNATIONAL INC., 1601, Wall Street, Fort, Wayne, Indiana 46804, U.S.A.	Pressure sensitive combination and switch and circuit breaker construction.
6.	128591	25-09-1970	SIEMENS AG., Berlin and Munich, West Germany.	A spark gap assembly for a surge arrester.
7.	128683	03-10-1970	GOULD INC., E-1200 First National Park Building, P.O. Box 3140 St. Paul, Minnesota, U.S.A.	A method of casting battery plate connecting lugs onto a connecting strap and the article so produced.
8.	128946	22-10-1969	BICC LIMITED, 21 Bloomsbury Street, London, W.C.1, England.	Electric cables.
9.	129023	27-10-1970	SIEMENS AG., Berlin & Munich, West Germany.	Dividing net works.
10.	129358	23-11-1970	Do.	Carrier frequency systems.
11.	129428	28-11-1970	TELEFONAKT IEBOLAGET M ERICSSON, Stockholm 32, Sweden.	Electric thread shaped conductor.
12.	129644	17-12-1970	KAWASAKI STEEL CORPORATION, No. 1, Jōhōme, Kitahoucho-Dori, Fuklai-ku, Kobe city, Japan.	Method of forming electric insulating coating on the surface of silicon steel sheet.
13.	129851	06-01-1971	MEFINA S.A., Route de Beaumont 5, Fribourg Switzerland.	Push button switch.
14.	129882	08-01-1971	SIEMENS AG., Berlin & Munich, West Germany.	A printed circuit board having a plurality of control channels on one side thereof.
15.	130070	27-01-1970	SIEMENS AG., Berlin & Munich, West Germany.	Manufacture of hollow bodies of semiconductor material
16.	130283	16-02-1971	Do.	Pulse regenerator circuits for pulse-code modulation system.
17.	130285	16-02-1971	Do.	Signal channel combination systems and a polarisation diversity received system employing the same.
18.	131290	07-05-1971	USTAV PRO VYZKUM RUD, Praha 4, Modranksa 23, Czechoslovakia.	High intensity multi-zone magnetic separators.
19.	131328	12-05-1971	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank, London S.E.1, England.	Bipolar unit for electrolytic cell.
20.	131698	14-06-1971	MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD., 1006, Oaza Kadoma, Kadomashi Osaka, Japan.	Dry cell.
21.	132935	04-10-1971	VOITH GETRIEBE KG., Heidenheim Brén? West Germany.	Single-stage hydrodynamic torque converter.
22.	133100	04-10-1971	UNION CARBIDE CORPORATION 270 Park Avenue, New York, New York 10017, U.S.A.	An automatic process for regulating the optimum current required for producing quality-controlled metallurgical products.
23.	133173	08-10-1971	WESTINGHOUSE BRAKE AND SIGNAL CO. LTD., 82, Yorkway King's Cross London N 19 AJ, England.	Static relaying circuit.
24.	133351	25-10-1971	MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD., 1006, Kadawa Kodamashi Osaka Japan.	Variable condenser.
25.	133362	11-05-1970	MINNESOTA MINING AND MANUFACTURING CO., 3 M Centre Saint Paul, Minnesota 55101 U.S.A.	An assembly station for use in splicing of communication cables.
26.	133363	11-05-1970	Do.	Probe member for verifying electrical connection to be used in splicing of communications cables.
27.	133740	25-11-1971	FAIRCHILD CAMERA & INSTRUMENTS CORPORATION, 464, Ellis Street, Mountain View, California 94040, U.S.A.	A method of fabricating integrated circuits with oxidized isolation.
28.	133787	29-11-1971	SIEMENS AG., Berlin and Munich, West Germany.	Electro mechanical filters.
29.	133798	30-11-1971	ICI Ltd., Imperial Chemical House, Millbank, London SW 1, England.	Insulated conductor.
30.	133925	13-12-1971	THE ENGLISH ELECTRIC CO. LTD., 1 Stanhope Gate London N1A 1EH, England.	High voltage monitoring system.
31.	134056	24-12-1971	KIMBERLEY-CLARK CORPORATION, Neenah, Wisconsin, U.S.A.	Coated electrical insulating paper and method of making it.

1	2	3	4	5
32.	134474	02-02-1972	SIEMENS AG., Berlin & Munich, West Germany.	Electro-mechanical filters and apparatus and method of trimming same.
33.	134509	05-02-1972	GIRLING LIMITED, King's Road, Tyseley, Birmingham 11, England.	Adaptor assemblies for connecting complementary members.
34.	134510	05-02-1972	Do.	Do.
35.	134511	05-02-1972	Do.	Do.
36.	134573	10-02-1972	SIEMENS AG., Berlin & Munich, West Germany.	Oscillator frequency control.
37.	134853	07-03-1972	AMERICAL CYANAMID CO., Wayne, New Jersey 1, U.S.A.	Electrochemical current producing cell.
38.	135096	29-03-1972	TELEFONAKTIEBOLAGET L M ERICS-SON, 12611 Stockholm-32, Sweden.	Process for electroplating an aluminium wire.
39.	135190	06-04-1972	SIEMENS AG., Berlin & Munich, West Germany.	Radio relay network system for the transmission of digital signal containing at least one radio relay station serving a plurality of relay links.
40.	135232	11-04-1972	RCA CORPORATION, 30, Rockefeller Plaza, New York New York 10020, U.S.A.	Method of making a semiconductor device.
41.	135293	17-04-1972	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Building Gateway Centre, Pittsburgh, Pennsylvania 15222, U.S.A.	Plug-in bus duct with heat dissipation means.
42.	135558	08-03-1972	RCA CORPORATION 30 Rockefeller Plaza, New York, New York 10020, U.S.A.	A semiconductor device.
43.	135559	08-03-1972	Do.	A method of assembling a semiconductor device.
44.	135672	20-10-1972	SANWA ELECTRIC INDRKS LTD., 7-23, Nokamachi-1-chome, Kogancishi Japan.	Circuit tester.
45.	135733	31-05-1972	SIEMENS AG., Berlin & Munich, West Germany.	Frequency band-width divider circuit arrangement.
46.	135859	02-05-1972	D.D.I. COMMUNICATIONS INC. 840 Seneca Street, Leiston, New York 14092, U.S.A.	Multiplexer.
47.	136012	01-12-1972	SIEMENS ALBIS AKTIENGESELLSCHAFT, Albisriederstrasse 245, 8047 Zurich, Switzerland.	Oscillator phase control circuit.
48.	136216	27-12-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York U.S.A.	Non-aqueous electro-chemical cell.
49.	136295	04-07-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Rotors for synchronous dynamoelectric machines.
50.	136343	30-10-1972	SIEMENS AG., Berlin & Munich West Germany.	Process for the production of Cross-linked polyethylene sheathing and/or insulation in an electric cable or conductor.
51.	136395	29-09-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York, U.S.A.	Reduced mercury-containing zinc alkaline cells.
52.	136425	17-07-1972	MATSUSHITA SIEKO CO. LTD. 18, Ima-fuku-kita-1-chome, Toda-ku, Osaka, Japan.	Electric fan.
53.	136452	18-7-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Rotor for dynamoelectric machines.
54.	136705	25-10-1972	SPERRY RAND CORPORATION, Crooks & Maple Roads Tray State of Michigan 48084 U.S.A.	Control system for a variable ratio hydrostatic transmission.
55.	136816	02-05-1972	RCA CORPORATION, 30 Rockefeller Plaza, New York, New York 10020, U.S.A.	Television display system.
56.	136824	03-05-1972	Do.	Color image display system.
57.	136850	10-05-1972	Do.	A color image display system.
58.	136972	15-02-1972	FICHTEL & SACHS AG., Ernst-schae strasse 62 German Federal Republic.	Multispeed transmission hub the braking operation where of is unaffected by the engagement position of the drive.
59.	136975	07-09-1972	ALUMINIUM COMPANY OF AMERICA, Aloca Building, Pittsburgh, State of Pennsylvania, U.S.A.	An electrode assembly.
60.	137027	27-12-1972	UNION CABIDER CORPORATION 270 Park Avenue, New York, State of New York, 10017 U.S.A.	Primary dry cell with anode cup bottom protection.
61.	137036	21-10-1972	BOURROUGHS CORPORATION, Second Avenue, At Bourroughs, Detroit, Michigan 48232, U.S.A.	Electronic calculators.

1	2	3	4	5
62.	137054	27-12-1972	SIEMENS AG., Berlin & Munich, West Germany.	Telecommunications systems.
63.	137260	15-05-1973	ESSEX INTERNATIONAL INC., 1601 Wall Street, Fort Wayne, I Indiana 46804, U.S.A.	Terminating and splicing electrical conductors.
64.	137265	22-12-1972	SIEMENS AG., Berlin & Munich, West Germany.	An electrical fuse assembly.
65.	137351	09-01-1973	ASEA AKTIEBOLAG, Västervik, Sweden.	Insulating part of electric switching device.
66.	137387	25-01-1973	ESB INCORPORATED, 5 Penn Centre Plaza, Philadelphia, Pennsylvania, U.S.A.	An electrical medical device for modifying the naturally occurring electric potential of a living body.
67.	137421	05-02-1973	MASCHINENFABRIK REINHAUSEN GEGRÜNDER SCHEUBECK KG., 8, Falkensteinstrasse 84, Regensburg, F.R. Germany.	A transformer housing.
68.	137581	21-11-1973	HITACHI LTD., 4, 1-chome, Maninouchi chiyoda-ku, Tokyo, Japan.	Rotary electric machine of the liquid cooled type.
69.	137675	19-04-1973	THE METTOY CO. LTD., 14 Herlestoke Road, Northampton NN 5, Y AS, England.	Electrical motors.
70.	137713	16-11-1973	RCA CORPORATION, 30 Rockefeller Plaza, New York, New York 10020 U.S.A.	Leakage current prevention in semiconductor integrated circuit devices.
71.	137748	21-12-1972	SOCIETE D'ETUPE ET D' APPLICATION DES TECHNIQUES NOUVELLES "NEOTEC", 96 Boulevard de Haussmann 75, 75008, Paris, France.	Radio position fixing receiver of the hyperbolic position line phase measurement type.
72.	137832	28-07-1973	VURROUGHS CORPORATION, Burroughs Place Detroit, Michigan, 48232, U.S.A.	A data processing system.
73.	138160	01-02-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, 15222, U.S.A.	Rectifier assembly for brushless excitation systems.
74.	138272	09-10-1973	Do.	Do.
75.	138306	12-03-1973	MASCHINENFABRIK REINHAUSEN GEGRÜNDER SCHEUBECK KG, 8 Falkensteinstrasse, 84, Regensburg F.R. Germany.	Electrical resistance-element and load diverter switch incorporating the same.
76.	138418	07-02-1974	Do.	Three-phase tap changer switches.
77.	138463	21-11-1973	ASEA AKTIEBOLAG, Västervik, Sweden.	Series capacitor bank for achieving an uninterrupted stabilization of the condition of operation high-voltage electric power supply network.
78.	138548	14-08-1975	OIL & NATURAL GAS COMMISSION, Tel Bhavan, Dehra Dun, Uttar Pradesh, INDIA.	An electrical actuator for use in an inclinometer.
79.	138590	02-03-1973	THE ELECTRIC ACTUATOR CO. LTD., Bolling Road Bradford 4, in the country of York, England.	Electric actuators.
80.	138623	29-03-1974	SIEMENS AG., Berlin & Munich, West Germany.	Electric filters.
81.	138676	04-04-1974	Do.	Circuit for processing binary signals.
82.	138711	17-07-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania 15222, U.S.A.	An amplifier with failsafe predetermined gain.
83.	138876	22-05-1974	SIEMENS AG., Berlin & Munich, West Germany.	Multiple plug connectors.
84.	139058	19-04-1974	MOSFBACH MANUFACTURING CO., 1115 Arlington Avenue, Pittsburgh, Pennsylvania, 15203, U.S.A.	Grid resistor.
85.	139102	22-05-1974	SIEMENS AG., Berlin & Munich, West Germany.	Coil formers.
86.	139237	13-03-1974	EMHART (U.K.) LTD., Crompton Road, Wheatley, Doncaster, Yorkshire, England.	Control systems for cyclic processes.
87.	139271	12-11-1974	HITACHI LTD., 5-1, 1-chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Chopper control system.
88.	139288	12-02-1974	METALLGESELLSCHAFT AG., 6 Frankfurt am Main, Reuterweg 14, West Germany.	Mercury cell for the electrolysis of alkali metal chlorides.
89.	139374	26-06-1974	GIRLING LTD. King Road, Tyseley, Birmingham, 11, England.	A control valve assembly for a vehicle dual circuit breaking system.
90.	139389	20-03-1974	GENERAL ELECTRIC CO. 1 River Road, Schenectady, New York, U.S.A.	Composite wire drawing die.

1	2	3	4	5
91.	139424	24-05-1974	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method for the uniform electroplating of sheet and strip.
92.	139475	10-08-1973	GIRLING LTD., King's Road, Tyseley, Birmingham 11, England.	Electrical plug and socket connectors.
93.	139493	10-12-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania 15222, U.S.A.	Light-activated lateral thyristor AC switch.
94.	139550	12-11-1974	BURROUGH CORPORATION, Burroughs Place, Detroit, Michigan 48232, U.S.A.	Leadless ceramic package for integrated circuit having heat sink means.
95.	139846	07-03-1974	SIEMENS AG., Berlin & Mubich, West Germany.	An electrical switch.
96.	139847	03-04-1974	BURROUGHS CORPORATION, Burroughs Place, Detroit, Michigan 48232, U.S.A.	A micro programme data processor having parallel instruction flow streams for plural levels of sub-instruction sets.
97.	139964	28-08-1973	Do.	A micro-programmable multi-processor system.
98.	139967	12-11-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Circuit interrupter comprising electromagnetic opening means.
99.	139992	31-05-1974	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, New York 10017, U.S.A.	High pressure infrared cell for use in analysing materials.
100.	139994	19-09-1974	SIEMENS AG., Berlin & Munich, West Germany.	A programme-controlled data switching system.
101.	139995	09-10-1974	Do.	Oscillator control circuits.
102.	140062	17-12-1974	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Low balanced reactance delta closure for electric arc furnace transformers.
103.	140104	05-04-1974	SIEMENS AG., Berlin & Munich, West Germany.	Microwave circulators.
104.	140134	12-07-1974	MAX BAERMANN, 506, Bensberg, Bezirk, Kln, Wulf-shof, F.R. GERMANY.	Eddy-current and hysteresis brake for track-bound vehicles.
105.	140164	30-01-1974	LABCON INCORPORATED, 1275 Columbus Avenue, San Francisco, California 94133, U.S.A.	Oscillating anvil disintegrator.
106.	140176	12-11-1974	BURROUGHS CORPORATION, Burroughs Place, Detroit, Michigan 48232, U.S.A.	A date driven information processing system.
107.	140185	09-10-1974	SIEMENS AG., Berlin & Munich, West Germany.	Piezoelectric resonators.
108.	140227	05-12-1974	UNITED AIRCRAFT CORPORATION, 400 Main Street, East Hort Ford, Connecticut, U.S.A.	A fuel cell electrode.
109.	140386	06-03-1975	SIEMENS AG., Berlin & Munich, West Germany.	An electromagnetically operable switch arrangement.
110.	140415	04-12-1973	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, 1-8, Horidome-cho, Nohonbashi, chou-ku, Tokyo, Japan.	Multiple verticle diaphragm type electrolytic cell for producing caustic soda.
111.	140475	21-10-1975	UNION CARBIDE INDIA LTD, 1, Middleton Street, Calcutta-16, India.	Flashlights or electric torches.
112.	140542	30-04-1974	SIEMENS AG., Berlin & Munich, West Germany.	Digital filter.
113.	140560	10-07-1974	BURROUGHS CORPORATION, Detroit, Michigan 49232, U.S.A.	A micro programmable computer system.
114.	140573	12-08-1974	RCA CORPORATION, 30 Rockefeller, New York, New York 10020, U.S.A.	High-reliability plastic-packaged semiconductor device.
115.	140575	19-09-1974	SIEMENS AG., Berlin & Munich, West Germany.	Programme-controlled data switching systems.
116.	140601	23-11-1973	THE GENERAL ELECTRIC CO. LTD., 1 Stanhope Gate, Lond on W 1 A 1 EH, England.	Protective devices for electric power transmission system.
117.	140603	09-04-1974	BURROUGHS CORPORATION, Detroit, Michigan, 48232, U.S.A.	A small micro program data processing system employing multisyllable micro-instructions.
118.	140672	16-10-1973	SIEMENS AG., Berlin & Munich, West Germany.	Process for the permanent polarisation of piezoelectric material.
119.	140731	28-11-1974	Do.	Multi-channel diode switching circuits for high frequency operation.
120.	140869	04-02-1975	Do.	Electromagnetically operable switch gear.

1	2	3	4	5
121.	140889	17-10-1974	SIEMENS AG., Berlin & Munich, West Germany	Frequency-changer structure
122.	140926	01-04-1974	Do.	Microwave calculators.
123.	140928	15-04-1974	MONSANTO CO., 800 North Lindbergh Boulevard St. Louis Missouri 63166 U.S.A.	Capacitor and dielectric impregnant composition therefor.

## CHEMICAL LIST NO. 2

(2)

The following Patents in the field of Chemical Engineering are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of The Patents Act 1970 in respect of Calender year 1980 generally on account of want of requests for licences to work the Patented inventions.

Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of Licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of the Patentees	Title of the inventions
1	2	3	4	5
1.	116611	02-07-1968	SUMITOMO ELECTRIC INDUSTRIES LIMITED No. 15 5-Chome Kitahamaku Osaka Japan.	An insulation varnish and a method of preparing the same.
2.	120069	27-02-1968	F.L. SMIDTH & CO. A/S 77 Vigerslev Alle Copenhagen-Valby, Denmark.	Manufacture of cement.
3.	129329	20-11-1970	NORTON CO. 1 New Bond Street Worcester State of Massachusetts U.S.A.	Abrasive elements.
4.	129936	14-01-1971	NIPPON KOKAN KABUSHIKI KAISHA 1-3 1-Chome Otemachi chiyoda ku Tokyo Japan.	A method of continuously manufacturing cold rolled steel sheet for drawing.
5.	131139	27-04-1971	DUNLOP HOLDINGS LTD. Dunlop House Ryder street St. Jame's London SW 1 England.	Contact adhesives.
6.	131894	28-06-1971	HALDOR FREDERIK AXEL TOSOE Frydenlundsvæj 2950 Vedback Denmark.	Endothermic catalytic processes and apparatus therefor.
7.	133599	12-11-1971	SPOLANA NARADNI PODNIK Neratvoice Czechoslovakia.	Method and apparatus for continuously preparing perchloromethyl mercaptan.
8.	133840	03-12-1971	HOECHST AG. 6230 Frankfurt Main 80 F.R. GERMANY.	Production of water-soluble monoazo dyestuffs.
9.	133887	08-12-1971	PENNZOIL CO. Pennzoil Place Houston Texas 77001 U.S.A.	Production of potassium dihydrogen phosphate/potassium nitrate mixtures.
10.	133888	08-12-1971	Do.	Production of potassium dihydrogen phosphate.
11.	133928	13-12-1971	SHOWA DENKO K.K. No. 34 Shiba Miyamoto-cho Minato-ku Tokyo, Japan.	Sintered agglomerates and method of producing the same.
12.	133956	15-12-1971	SNAMPROGETTI S.P.A. 16 Crosso Venezia Milan Italy.	Recovery of aromatic hydrocarbons from mixtures containing the same.
13.	133969	16-02-1972	Do.	Recovery of isoprene from mixtures containing the same.
14.	133975	16-12-1971	FIBREGLASS LTD. 201-11 Martius Building, Wafer Street, Liverpool, L2 35R Lancashire England.	Process for preparing bonded glass fibers.
15.	133997	18-12-1971	IMITSUI PETROCHEMICAL INDUSTRIES LTD., 2-5, 3-chome Kasumigaseki chiyoda-ku Tokyo Japan.	Improved process for producing terephthalic acid.
16.	134023	21-12-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30 The Hague, The Netherlands.	A process for recovering ethylene oxide.
17.	134024	21-12-1971	USS ENGINEERS AND CONSULTANTS INC. 600 Grant Street Pittsburgh State of Pennsylvania U.S.A.	Method of making rim-stabilized steel ingots.
18.	134099	28-12-1971	UNIVERSAL OIL PRODUCTS CO. Ten UOP Plaza-Algonquin & Mt. Prospect Road Des plaines Illinois U.S.A.	Hydrocarbon separation process.
19.	134104	28-12-1971	REYNOLDS LEASING CORPORATION 1414 Seaboard Coast tire Building Jackson Ville State of Florida U.S.A.	Treating tobacco to increase its filling capacity.

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20.	134107	28-12-1971	HOECHST AG., 6230, Frankfurt/Main 80, F.R. GERMANY.	Manufacture of water soluble fibre-reactive azo dyestuffs.
21.	134135	30-12-1971	SNAMPROGETTI S.P.A. 16 Corso Venezia, Milan, Italy.	Separation of conjugated diolefins from mixtures containing them.
22.	134146	31-12-1971	CLUETT, PEABODY & CO. INC., 433 River street, Troy, New York, U.S.A.	Method and apparatus for quickly treating fabrics with liquid ammonia.
23.	134147	31-12-1971	SINLOIHI CO., No. 38 Nishinashimoro-cho, Konohana-ku, Osaka-shi, Japan.	Preparation of coloured resin particles.
24.	134151	31-12-1971	HOECHST AG. 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparation of basic oxazine dyestuffs.
25.	134152	31-12-1971	Do.	Preparation of water-soluble reactive monoazo dyestuffs.
26.	134184	04-01-1972	KAUTEX WERKE REINOLD HAGEN, 5300 Bonn Hozder, West Germany.	Method and apparatus for producing tubular bodies of thermoplastic synthetic resin material.
27.	134187	05-01-1972	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York, York-10017, U.S.A.	Adsorption process for recovery of nitrogen oxides from gas streams.
28.	134189	05-01-1972	UNIVERSOL OIL PRODUCTS CO., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Method of preparing improved hydro desulfurization catalyst.
29.	134208	06-01-1972	FARBEWERKE HOECHST AKTIENGESELLSCHAFT, 45 Bruningstrasse, Frankfurt/Main F.R. GERMANY.	Shaped article made of thermoplastic molding compositions on the basis of polyoxymethylenes and process for the manufacture thereof.
30.	134247	11-01-1972	1. UCB S.A. 4, chaussee de charleroi, Saint-Gilles-Bruzelles, Belgium. 2. MIKHAIL GAVARILOVITCH SLINKO, Akademgorodok, Norosibirook-72, Siberia, U.S.S.R.	Process for carrying out catalytic fluid-bed ammonoxidation reactions.
31.	134295	17-01-1972	HOWSON ALGRAPHY LTD., Murry Road, Orphington, Kinet, England.	A method of removing from a surface, a layer of light-sensitised poly-vinylalcohol containing material which has become insolubilised.
32.	134299	17-01-1972	KNAPSACK AKTIENGESELLSCHAFT, Knapsack Near Kolin, F.R. GERMANY.	Production of acrylonitrile and methacrylonitrile.
33.	134321	19-01-1972	HINDUSTAN LEVER LTD, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-20, India.	A chemical process involving sulphonation or sulphation and apparatus for use therein.
34.	124380	25-01-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, New York state 10017, U.S.A.	Reverse osmosis module.
35.	134444	31-01-1972	POLYSAR LTD, Sarnia, Ontario, Canada.	Vulcanization of elastomers.
36.	134445	31-01-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, India.	Tooth pastes.
37.	134490	03-02-1972	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Polymerisation of an olefin at high pressure in tubular reactors.
38.	134515	07-02-1972	EXXON RESEARCH AND ENGINEERING CO., Linden, New Jersey, U.S.A.	Solvent dewaxing-deoiling process.
39.	134678	19-02-1972	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	A process for forming a metallic coating on a moving strip emerging from a bath of molten coating material and an apparatus therefor.
40.	134694	21-02-1972	INTERNATIONAL NICKEL LTD, Thame House, Millbank, London, SW1P 4QF England.	Process for the preparation of chromium nickel alloy products.
41.	134718	23-02-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165/166 Backbay Reclamation, Bombay-400020, India.	Production of a cold water soluble tea.
42.	134733	24-02-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for olefin separation.
43.	134748	25-02-1972	INSTITUT DE RECHERCHES DE LA SIDÉRURGIE FRANCAISE, 185 rue, President Roosevelt, 781014, Saint Germain-en Laye, France.	Metal feed supply of metallurgical plants which require regular flow of molten metal.
44.	134782	01-03-1972	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparing monoazo pigments.

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45.	134783	01-03-1972	SHIN ETSU CHEMICAL CO., 6-1, Otemachi 2-chome, chiyoda-ku, Tokyo, Japan.	Method for suspension-polymerizing vinyl chloride.
46.	134799	02-03-1972	SNAMPROGETTI S.P.A. 16 Corso Venezia, Milan, Italy.	Method for inhibiting the polymerization of conjugated dienes.
47.	134816	03-03-1972	JOHNSON & JOHNSON Street, New Jersey, U.S.A. 501 George	Method of making settable plaster of paris composition.
48.	134832	04-03-1972	Do.	Method of improving gypsum cast forming compositions.
49.	134842	06-03-1972	TENCO-BROOKE BOND LTD., 35 and 37 Cannon Street, London EC4, England.	Preparation of an instant tea composition and tea composition prepared thereby.
50.	134860	07-03-1972	UNIVERSAL OIL PRODUCTS CO., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	Hydrocarbon separation process.
51.	134872	08-03-1972	Do.	Regeneration of a coke-deactivated catalyst comprising a combination of platinum rhodium and halogen with a process carrier material.
52.	134956	16-03-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, U.S.A.	Production of ferrosilicon alloys.
53.	134976	17-03-1972	NIPPON KOKAN KABUSHIKI KAISHA 1-2, 1-chome, Marunouchi chiyodaku, Tokyo, Japan.	Controlling the amount of silicon contained in an impurity in high carbon ferrochromium.
54.	134988	18-03-1972	HORIZONS INCORPORATED, 23800 Merchantile Road, Cleveland, Ohio, U.S.A.	Process for the preparation of high molecular weight poly (phosphazene) copolymers.
55.	135043	24-03-1972	UOP CO., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	Method of preparing a hydrorefining catalyst.
56.	135044	24-03-1972	1. HEINRICH PANNENBECKERS, 53, Bonn-Hoizlzar, Bergstrasse 23, F.R. GERMANY. 2. RUDOLF PLATE, 53 Benn-Ipendorf, Quellenweg 6, F.R. GERMANY.	Tubular film blow process for thermoplastic material having hot tack.
57.	135128	03-04-1972	SAINI-GOBAIN CO., 62, Boulevard Victor Hugo, Neuilly-Sur-seine France.	A method and apparatus for the manufacture of fibres from molten thermoplastic material.
58.	135177	05-04-1972	USS ENGINEERS AND CONSULTANTS INC, 600 Grant Street, State of Pennsylvania, U.S.A.	Method of and apparatus for treating liquid steel.
59.	135196	07-04-1972	SOLVAY & CIE, Rue du Prince Albert 33, B-1050, Brussel, Belgium.	Process for the preparation of aqueous solution for washing and bleaching.
60.	135231	11-04-1972	UNILEVER LTD, Unilever House, Blackfriars, London, E.C.H. England.	A process for the preparation of an instant tea powder.
61.	135246	11-04-1972	E.I.DU PONT DE NEMOURS & CO., Wilmington, Delaware, U.S.A.	Method for preparing improved polyamide fibres and films.
62.	135328	19-04-1972	UNILEVER LTD., Unilever House, Blackfriars, London E.C.4, England.	A process for the preparation of an instant tea powder.
63.	135338	19-04-1972	ROBERT BOSCH GmbH, Postfach 50, 7 Stuttgart 1, West Germany.	Liquid filter.
64.	135360	04-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	An improved process for the preparation of one or more oxirane compounds.
65.	135366	19-06-1972	ALFA-LAVAL AKTIEBOLAG, Postfack, S-14700 Tumba, Sweden.	Method of bringing about a reaction between a liquid and a gas.
66.	135382	15-02-1971	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Polymerising a conjugated diene.
67.	135383	15-02-1971	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Process for preparing a polyimine of aluminium.
68.	155477	29-07-1972	UOP CO. TEN UOP Plaza-Algonquin & Mt. Prospect Roads, U.S.A.	Hydrocarbon separation process.
69.	135496	27-06-1972	Do.	Improved process for conversion of alkylaromatic hydrocarbons to alkenylaromatic hydrocarbons.
70.	135507	24-09-1971	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, U.S.A.	A process for improving the properties of ethylene polymerization catalysts.
71.	135551	27-04-1972	UOP CO., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, U.S.A.	Steam reforming of hydrocarbons.

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72.	135629	23-05-1972	HOECHST AG., 6130 Frankfurt/Main 80, F.R. GERMANY.	Manufacture of water-insoluble monoazo dyestuffs.
73.	135690	24-10-1972	FMC CORPORATION, 633, Third Avenue, New York, 17, New York, U.S.A.	Method of producing carbonaceous iron-bearing briquettes.
74.	135702	27-04-1972	HOECHST AG, 6230 Frankfurt/Main 80, F.R. GERMANY.	Process for preparing pigment preparations.
75.	135799	17-05-1972	THE GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron, OHIO, U.S.A.	Process for preparing age resistant polymers.
76.	135810	04-09-1972	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparation of fast dyeings and prints on fibrous material containing hydroxyl groups or nitrogen.
77.	135869	27-06-1972	"REDOX" DESENVOL VINENTOE EX-PORAGOA DE PROCESSOS SIDERGICOS LIMITADA, Rue Pasteur 543, Curitiba (Parana) Brazil.	Process and apparatus for the direct product of steel.
78.	135878	20-06-1972	INTERNATIONAL NICKEL LTD, Thomes House, Millbank, London, SW1, England.	Method of obtaining a coloured chromium containing alloy.
79.	135899	23-05-1972	HINDUSTAN LEVER LTD, Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-400020, India.	A method of protecting hypochlorites for inclusion in a detergent compositions.
80.	135902	10-07-1972	THE GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron, Ohio, U.S.A.	Process of preparing 2-(4-morpholinodithio)-benzo thiazole.
81.	135937	04-07-1972	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparation of water-soluble reactive xanthene dyestuffs.
82.	135947	28-04-1972	BEECHAM GROUP LTD., Beecham House, Great West Road, Brentford, Middlesex, England.	Oral hygiene compositions.
83.	136009	08-05-1972	SHIN ETSU CHEMICAL CO., 6-1, Otemachi, 2-chome, chiyoda-ku, Tokyo, Japan.	Method for suspension polymerizing vinyl chloride.
84.	136010	06-09-1972	FMC CORPORATION, 633 Third Avenue, New York 17, New York, U.S.A.	Curing of green briquettes with air.
85.	136017	28-04-1972	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, P.O. Polytechnic, Ahmedabad-380015, Gujarat, India.	A process for the preparation of granular alkali metal salts of carboxymethyl ethers of polysaccharides.
86.	136072	16-08-1972	LIBBEY OWENS FORD CO., 811, Medison, Avenue, Toledo, Ohio, U.S.A.	Bending and tempering glass sheets.
87.	136076	28-04-1972	HINDUSTAN LEVER LTD. Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-400020, India.	Detergent composition and a method for preparing the same.
88.	136108	20-06-1972	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Process for the preparation of chloroformic acid aryl esters and a cyclic carbonates.
89.	136168	05-01-1972	SHELL INTERNATIONALE RESEARCH MAATSHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for producing silver catalysts.
90.	136198	31-10-1972	ECAR PRODUCTS INC., Wilmington, Delaware, U.S.A.	Process for de-inking printed waste cellulosic stock.
91.	136235	23-05-1972	UOP CO., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, U.S.A.	A system for carrying out a hydrocarbon conversion process.
92.	136242	03-05-1972	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Preparation of water-soluble monoazo dyestuffs.
93.	136340	05-01-1973	SHELL INTERNATIONALE RESEARCH MAATSHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of ethylene oxide.
94.	136350	21-06-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Thermosettable pressure-sensitive adhesive tape.
95.	136375	01-12-1972	EISENWERKE-GESELLSCHAFT MAXIMILIANSHUTTE M.B.H. 8458, Sulzbach-Rosenberg, West Germany.	Process for the refining low phosphorus pig iron to make steel.
96.	136567	21-06-1972	HOECHST AG., 6230, Frankfurt/Main 80, F.R. GERMANY.	Preparation of sulfosuccinic acid semi-esters.
97.	136638	18-05-1972	VYZUKUMMY USTAV ORGANICKYCH SYNTEZ., Pardubice-Rybitvi, Czechoslovakia.	Automatic production of azodyestuffs.
98.	136652	05-07-1972	N.V. HOLLANDSE SIGNAALAPPABATEN, 40 Zuidelijke, Harenweg, Hengels(o), The Netherlands.	A method for the manufacture of yarn.
99.	136668	21-06-1972	HOECHST AG., 6230, Frankfurt/Main 80, F.R. GERMANY.	Dyestuff dispersions.

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100.	136768	27-07-1971	JOHNSON & JOHNSON 501, George Street, New Brunswick, New Jersey, U.S.A.	Synthetic resin binder composition for bonding porous absorbent fibrous materials.
101.	136810	16-06-1972	Do.	A process for preparing pressure sensitive adhesive composition.
102.	136811	15-06-1973	Do.	Preparing acrylate adhesive composition.
103.	136819	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for effecting direct oxidation of ethylene with molecular oxygen to ethylene oxide.
104.	136844	15-09-1972	INTERNATIONAL NICKEL LTD. Thomas House, Millbank, London SW 1, England.	Preparing nickel chromium steel casting.
105.	136867	16-11-1972	IMPERIAL CHEMICAL INDUSTRIES, Imperial Chemical House, Millbank, London, SW 1, England.	Surface moderated granular propellant and a method of preparing such propellant.
106.	136886	12-12-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-400020, India.	A process for improving the bacteriological quality of a protease.
107.	136927	04-09-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	An improved process for preparing oxirane compounds by epoxidizing olefins with hydroperoxides.
108.	136930	05-03-1973	METALLGESELLSCHAFT AG., 16 Frankfurt A.M. Reuterweg 14, West Germany.	Process of producing sponge iron.
109.	136979	26-03-1973	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH, Limestone Avenue, Campbell, Australian Capital Territory, Commonwealth of Australia.	Process and apparatus for producing a twisted and plied yarn.
110.	137025	06-09-1972	VAKUUM VULK HOLDINGS LTD., 360 Queen Street Nassau, Bahamas.	Retreading and vulcanising process.
111.	137079	07-11-1972	FIERRO ESPONJA S.A. Areruda Los Angelos al oriente, Monterrey, N. Republic of Mexico.	Method and apparatus for reduction of particulate metal ores.
112.	137113	21-08-1972	THE LUBRIZOL CORPORATION, P.O. Box 3057, Euclid Station, Cleveland, Ohio 44117, U.S.A.	A method for the preparation of oil-soluble basic barium containing compositions.
113.	137275	17-07-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-400020, India.	Skin moisturiser based on glutamic acid and/or glutamine and/or their salts.
114.	137364	04-10-1972	THE LUBRIZOL CORPORATION, P.O. Box, 3057, Euclid Station, Cleveland, Ohio, U.S.A.	Process for preparation of an-oil soluble composition.
115.	137446	09-10-1972	FOSTER WHEELER CORPORATION, 110 South Orange Avenue, Livingston, State of New Jersey, U.S.A.	Fluidized bed reactor.
116.	137506	21-03-1973	ELKEM-SPIGERVERKET A/S, Elekembusset, Middlethunsgate 27, P.O. Box 5430, Oslo, Norway.	Method of recovering fluorine components from waste gases from electrolytic production of aluminium.
117.	137507	20-03-1974	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-400020, India.	Process for the dehydroxylation of hardened castor oil.
118.	137546	02-01-1973	THE GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron Ohio, U.S.A.	Improvements in a method of preparing a resinous material.
119.	137575	10-04-1973	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Improvements in or relating to heavy media separation of minerals.
120.	137621	04-01-1973	RHONE PROGIL 67 Boulevard du chateau, Boite Postale 122, 95527 Neuilly Sur Seine, France.	Process for preparing polymers.
121.	137738	18-08-1972	HINDUSTAN LEVER LTD., Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-400020, India.	Preparation of cycloaliphatic monoterpenic alcohol.
122.	137837	05-10-1973	METALLGESELLSCHAFT AG., 16 Frankfurt A.M. Reiter weg 14, West Germany.	Process for converting hydrogen sulfide into elementary sulfur by the claus process.
123.	137872	30-11-1972	HOECHST AG., 6230 Frankfurt/Main 80, West Germany.	Process for the preparation of novel soluble disazo dyestuffs.
124.	137895	22-01-1973	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, U.S.A.	Selective absorption process for air separation.

1	2	3	4	5
125.	137913	11-07-1973	SCIETE NATIONALE DES POUDRES ET EXPOSIEFS, 2 Quai Henri, 75181 Paris Cedex, 04, France .	A process for the recovery of nitrocellulose from the filtrate obtained after the nitration of cellulose and an apparatus therefor.
126.	137976	14-10-1971	THE MEAD CORPORATION, Talbett Tower, Dayton, Ohio, 40402, U.S.A.	A method for preparing a wet proofed catalyst compositions for use in a conducting a chemical reaction between reactants contained in two or more fluid phases.
127.	138025	22-01-1974	ICI LTD., Imperial Chemical House, Millbank, London SW1, England.	Explosive fusc-cord.
128.	138032	18-07-1973	NAARDEN INTERNATIONAL N.V. Huizerstraatweg 28, Naarden, Bussum, The Netherlands.	Process for the preparation of sesquiterpene ketones.
129.	138038	12-10-1973	HOLLANDSE SIGNAALAPPARATEN V. Zuidelijke Havenweg 40, Hengelo(O) The Netherlands.	B. Method for the manufacture of yarn, apparatus for the application of this method and yarn obtained by applying the method.
130.	138128	16-10-1973	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-400020, India.	Process for preparing super fatted soap bars.
131.	138130	07-10-1972	ELKEM-SPIGERVERKET A/S, Middlethusegate, 27, P.O. Box 5430, Oslo, 3, NORWAY.	Smelting process.
132.	138167	01-12-1972	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	A method for reforming of hydrocarbons.
133.	138183	19-10-1972	ALUMINUM COMPANY OF AMERICA, Aloca Building, Pittsburgh, Pennsylvania, U.S.A.	Process for the continuous production of aluminium.
134.	138192	20-02-1973	ETABLISSEMENT SALGAD, Vaduz, Liechtenstein.	Explosive projectile.
135.	138237	04-09-1972	ALUMINIUM COMPANY OF AMERICA, Aloca Building, Pittsburgh, Pennsylvania, U.S.A.	Production of aluminium chloride.
136.	138238	16-12-1972	SOCIETE NATIONALE DES POUDRES ET EXPLOSIES, 12 Quai Henri IV, 75181, Paris Cedex 04, France.	A propellant powder composition and black of propellant fuel moulded from such composition.
137.	138330	11-06-1973	MITSUBISHI GAS CHEMICAL CO. LTD., 5-2, Marunouchi, 2-chome, chiyoda-ky, Tokyo, Japan.	Improved method for producing anhydrous sodiumhydroxylate using sodium formate formic acid or formic acid ester.
138.	138333	12-10-1972	HORIZONS RESEARCH INCORPORATED, 23800 Merchantile Road, Cleveland, Ohio, U.S.A.	Preparation of phosphazene polymers.
139.	138365	08-09-1972	ALUMINUM COMPANY OF AMERICA, Aloca Building, Pittsburgh, Pennsylvania, U.S.A.	Process for the recovery of aluminium chloride from a gas containing gaseous aluminium chloride.
140.	138391	23-11-1972	STEETLEY (MFG) LTD., Gateford Mill Workshop, Nottinghamshire, England.	Process for making magnesia.
141.	138449	09-01-1973	UNILEVER LTD., Unilever House, Blackfriars, London, E.C.4, England.	A process for the preparation of black tea from green or unfermented tea.
142.	138486	27-06-1973	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Shaped articles made of thermoplastic moulding compositions based on poly(oxymethylene) and process for preparing the same.
143.	138496	27-11-1972	CANADIAN INDUSTRIES LTD., Dorchester Boulevard West, Montreal 101, Province of Quebec, Canada.	Explosive compositions.
144.	138559	02-11-1972	HOECHST AG., 6230 Frankfurt/Main 80, FRG.	Process for preparing novel monoazo reactive dyestuffs.
145.	138689	02-06-1973	OSTERREICHISCH-AMERIKANISCHE MAGNEIT AG., Badenhein, Carinthia, Austria.	Production of sintered magnesia.
146.	138705	28-09-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAFFIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process and apparatus for producing gas by partial combustion and carburetting said gas.

**PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the Patents.

No.	Title of the invention
141543 (26-08-74)	Preparation of dimethyl tin dichloride.
141604 (04-02-76)	A process for preparing lysine salt of cephalaxin.
141621 (12-11-75)	Process for the manufacture of fluorinated alkanoic acid derivatives.

**RENEWAL FEES PAID**

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 109979 110143 112551 114231 114877 115001 115082 115298  
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 130302 130320 130416 130774 130829 131103 131120 132261  
 132414 133001 133051 134297 134616 134644 134656 134662  
 134674 134788 134799 134840 134871 134881 134885 134889  
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 138628 138690 138693 138809 139051 139226 139242 139245  
 139299 139540 139559 139681 139682 139753 139771 139942  
 139965 140246 140256 140675 140848 140950 140961 140962  
 140963 141007 141075 141137 141413 141461 141596 141730  
 141733 141828 142065 142391 142429 142516 142658 142720  
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 143922 144157 144187 144243 144513 144525 144542 144590  
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**RESTORATION PROCEEDINGS**

Notice is hereby given that an application for restoration of Patent No. 113388 dated the 29th November, 1967 made by Ram Narain Kher on the 13th April, 1981 and notified in the Gazette of India, Part III, Section 2 dated the 12th September, 1981 has been allowed and the said patent restored.

**REGISTRATION OF DESIGNS**

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

- The date shown in each entry is the date of registration of the design included in the entry.
- Class. 1. No. 150398. Mistral, Inc. of 1311 Blue Gum Street, Anaheim, California, U.S.A. "Ceiling Sweenfan with Luminary". February 10, 1981.
- Class. 1. No. 150432. Khaitan Fans Pvt. Ltd., an Indian Company of 46-C, J. L. Nehru Road, Everest, 18th floor, Calcutta-700071, West Bengal, India. "Regulator Cover". February 18, 1981.
- Class. 1. No. 150453. The Jay Engineering Works Ltd. of 225-C, Acharya Jagadish Bose Road, Calcutta-700020, West Bengal, India, an Indian Company. "Fan". February 21, 1981.

- Class. 1. No. 150486. Oxyweld Engineers, an Indian Company of 461, Sarat Chatterjee Road, Howrah-711103, West Bengal, India. "Burner assembly". February 27, 1981.
- Class. 1. No. 150510. Geetha Industries, a proprietary concern of 120, 1st floor, Nagratpet, Bangalore-560002, Karnataka, India. "A plate". March 9, 1981.
- Class. 1. No. 150517. S. A. Enterprise of 3, Marve Apartments, Marve Road (West), Bombay-400064, Maharashtra, a proprietary firm. "Cord for Electric Iron". March 11, 1981.
- Class. 1. No. 150632. Motaheddeh Brothers, Nai Sarak-19, Moradabad (U.P.), an Indian Partnership Firm. "Metal Pot (Hukka)". April 7, 1981.
- Class. 1. No. 150692. Ali Hyderali Haideri, an Indian citizen of B-1/1, GIDC Industrial Estate, Selvas Road, Vapi, Dist. Bulsar, Gujarat, India. "A strapping device". April 20, 1981.
- Class. 1. No. 150744. The Jay Engineering Works Ltd. of 225-C, Acharya Jagadish Bose Road, Calcutta-700020, West Bengal, India, an Indian Company. "Guard Plate". May 8, 1981.
- Class. 1. No. 150747. Narinder Singh Kambhoj, an Indian National of 1237 Chowk Shah Mubarik Kuch Patiram, Delhi-6, "Door bolt or latch". May 11, 1981.
- Class. 1. No. 150795. Premier Enterprises, Chowki Hasan Khan, Moradabad (U.P.), Indian Partnership Firm. "Hukka". May 22, 1981.
- Class. 1. No. 150796. Premier Enterprises, Chowki Hasan Khan, Moradabad (U.P.), Indian Partnership Firm. "Hukka". May 22, 1981.
- Class. 1. No. 150797. Premier Enterprises, Chowki Hasan Khan, Moradabad (U.P.), Indian Partnership Firm. "Hukka". May 22, 1981.
- Class. 1. No. 150798. Premier Enterprises, Chowki Hasan Khan, Moradabad (U.P.), Indian Partnership Firm. "Hukka". May 22, 1981.
- Class. 1. No. 150828. Vinodrai Vanravandas Barchha, an Indian of Flat No. 9B, (9th floor), 'Neek Kamal', 41, Elgin Road, Calcutta-700020, West Bengal, India. "Top Cover Ring (Wick Stove)". May 30, 1981.
- Class. 1. No. 150871. Bharji Brothers (India), a partnership firm of G. T. Road, Goraya-144409, Distt. Jullundur (NR), Punjab. "Water Circulator". June 4, 1981.
- Class. 1. No. 150947. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flashlight 1". May 27, 1981.
- Class. 1. No. 150829. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flashlight 1". June 30, 1981.
- Class. 1. No. 150988. Geep Industrial Syndicate Limited of 28, South Road, Allahabad, Uttar Pradesh, India, an Indian Company. "Hand Torch". July 10, 1981.
- Class. 3. No. 150324. (Mrs.) Sharayu Sharad Pathak of 595, Shaniwar Peth, Pune-411030, Maharashtra, India. "Fuel Filter for Automobiles". January 28, 1981.
- Class. 3. No. 150325. (Mrs.) Sharayu Sharad Pathak of 595, Shaniwar Peth, Pune-411030, Maharashtra, India. "Fuel Filter for Automobiles". January 28, 1981.
- Class. 3. No. 150354. Elesa S.p.A., an Italian Company of Via G. Pascoli 21, 20129 Milano, Italy. "A Handwheel". February 3, 1981.
- Class. 3. No. 150368. Khaitan Fans Pvt. Ltd. of 46-C, J. L. Nehru Road, Everest, 18th floor, Calcutta-700071,

- West Bengal, India. "Regulator Cover". February 4, 1981.
- Class. 3.** No. 150373. Mercantil International C.A., a Venezuelan Joint Stock Co. of Apartado 51200, Caracas, Venezuela. "Bottle". February 5, 1981.
- Class. 3.** No. 150355. Elesa S.p.A., an Italian Company of Via G. Pascoli 21, 20129 Milano, Italy. "A Handwheel". February 3, 1981.
- Class. 3.** No. 150356. Elesa S.p.A., an Italian Company of Via G. Pascoli 21, 20129 Milano, Italy. "A Handwheel". February 3, 1981.
- Class. 3.** No. 150399. Metal Box Limited of Queens House, Forbury Road, Reading RG1 3JH, Berkshire, England, a British Company. "A Lid". February 10, 1981.
- Class. 3.** No. 150415. The Jay Engineering Works Ltd. of 225-C, Acharya Jagadish Bose Road, Calcutta-700020, West Bengal, India, Indian Company. "Canopy for Ceiling Fan". February 17, 1981.
- Class. 3.** No. 150417. The Jay Engineering Works Ltd. of 225-C, Acharya Jagadish Bose Road, Calcutta-700020, State of West Bengal, India, an Indian Company. "Regulator for Fan". February 17, 1981.
- Class. 3.** No. 150431. Sm. Misti Guha, Indian, 14F, Station Road, Calcutta-700031, West Bengal, India. "Tube-well Filters". February 18, 1981.
- Class. 3.** No. 150434. Frederick Enterprises, Frederick House, 3-Y.M.C.A. Road, Bombay-400008, Maharashtra, India. "Bottle". February 20, 1981.
- Class. 3.** No. 150436. Frederick Enterprises, Frederick House, 3-Y.M.C.A. Road, Bombay-400008, Maharashtra, India. "Bottle". February 20, 1981.
- Class. 3.** No. 150459. Kemco Chemicals of 48/3, Muktaram Babu Street, Calcutta-700007, West Bengal, India, Indian Partnership Firm. "Cap for container". February 24, 1981.
- Class. 3.** No. 150488. Bhatia & Co. of 906, Chawri Bazar, Delhi-110006, an Indian Partnership Firm. "Ink & other liquid dropper". February 27, 1981.
- Class. 3.** No. 150501. Suman Manufacturing Company, Industrial Estate, By pass, Jullundur-4 (Punjab), a partnership firm. "Hacksaw". March 5, 1981.
- Class. 3.** No. 150504. Malbros Industries of 1816, Chandni Chowk, Delhi-6, an Indian Partnership Concern. "Pen cum Memo stand". March 5, 1981.
- Class. 3.** No. 150509. Qamar Enterprises of 7074, Gali Jaman Wali, Betti Wala Bagh, Pul Bangash, Delhi-110006, "Toy". March 7, 1981.
- Class. 3.** No. 150523. Vishal Plastics of 39-B, Middle Class Society, Fatehgung, Baroda-390002, State of Gujarat, India, Partnership Firm. "A plastic container". March 12, 1981.
- Class. 3. No. 150524. Jekay Guild of 7 Satya Building Shaikar Marg, Vile Parle (East), Bombay-400057, Maharashtra, India, "A Bottle". March 12, 1981.
- Class. 3.** No. 150525. Speed-Age Corporation, an Indian Partnership Firm of Unit No. 11, Ghanshyam Industrial Estate, Veera Desai Road, Andheri (West), Bombay-400058, Maharashtra, India. "Shuttlecocks". March 12, 1981.
- Class. 3.** No. 150544. Bharat Harmonica Industries, an Indian Partnership Firm, Bhuptani Building Gondal Road, Rajkot-360002, Saurashtra (Gujarat), India. "Harmonica". March 17, 1981.
- Class. 3.** No. 150573. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.
- Class. 3.** No. 150574. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.
- Class. 3.** No. 150579. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.
- Class. 3.** No. 150580. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.
- Class. 3.** No. 150581. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.
- Class. 3.** No. 150592. Navbharat Radio Agencies of 350, Lamington Road, Bombay-400007, Maharashtra, Indian Partnership Firm. "Storage container". March 24, 1981.
- Class. 3.** No. 150596. Unisystems Pvt. Ltd. of 25, Community Centre, East of Kailash, New Delhi-110065, India, Indian Company. "Pouch". March 24, 1981.
- Class. 3.** No. 150635. Swan Microfilters Pvt. Ltd., Indian Company of 3/7, Indian Mercantile Insurance Bldg., Ranade Road, Dadar, Bombay-400028, Maharashtra, India. "Filter Candle". April 1, 1981.
- Class. 3.** No. 150663. Lektrix Engineering Industries Pvt. Ltd., an Indian Company of 11, Industrial Town, Rajajinagar, Bangalore-560044, Karnataka. "The Knife assembly used in the domestic grinder or food processor machines". April 9, 1981.

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S. VEDARAMAN,  
Controller General of Patents,  
Designs and Trademarks.

